IN THE CLAIMS

1. (Currently Amended) A method comprising:

identifying available data packets for transmission, the available data packets being of a plurality of data packet types corresponding to different numbers of time-slots required for data packet transmission;

determining how many time-slots are available for the transmission;

upon determining the number of the available time slots, identifying a subset of the plurality of data packet types that fit into the available time-slots and meet a minimum transfer length requirement;

~~selecting, from the identified data packet types, a data packet type to~~ determining whether any of the identified data packet types are capable of transmitting an entire required data length ~~a portion of the data in accordance with characteristics of the transmission~~;

if any of the identified data packet types are capable of transmitting the entire required data length, choosing for the transmission, from the data packet types capable of transmitting the entire required data length, a data packet type capable of transmitting most data in a shortest time; and

if none of the identified data packets are capable of transmitting the required data length, choosing for the transmission, from the identified data packet types, a data packet type capable of transmitting most data in a shortest time.

2-4. Canceled.

5. (Currently Amended) [[A]] The method of claim 1 wherein ~~comprising:~~ the identified data packet types not only

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~~identifying data for transmission;~~

~~determining how many time-slots are available for the transmission;~~

~~upon determining the number of the available time slots, identifying a plurality of data packets that~~ fit into the available time-slots[[,]] and meet [[a]] the minimum transfer length requirement ~~and are of a data packet type which is~~ but are also least prone to a transmission error~~; and~~

~~selecting, from the identified data packet types, a data packet type to transmit a portion of the data in accordance with characteristics of the transmission.~~

6. (Currently Amended) [[A]] The method of claim 1 wherein ~~comprising:~~ the identified data packet types not only

~~identifying data for transmission;~~

~~determining how many time-slots are available for the transmission;~~

~~upon determining the number of the available time slots, identifying a plurality of data packets that~~ fit into the available time-slots[[,]] and meet [[a]] the minimum transfer length requirement [[and]] but can also be transmitted in a transmitter logic low power mode~~; and~~

~~selecting, from the identified data packet types, a data packet type to transmit a portion of the data in accordance with characteristics of the transmission~~.

7. (Currently Amended) A computer-readable medium having stored thereon a set of instructions, which when executed by a processor, cause the processor to perform a method comprising:

identifying available data packets for transmission, the available data packets being of a plurality of data packet types corresponding to different numbers of time-slots required for data packet transmission;

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determining how many time-slots are available for the transmission;

upon determining the number of the available time slots, identifying a subset of the plurality of data packet types that fit into the available time-slots and meet a minimum transfer length requirement;

~~selecting, from the identified data packet types, a data packet type to~~ determining whether any of the identified data packet types are capable of transmitting an entire required data length ~~a portion of the data in accordance with characteristics of the transmission~~;

if any of the identified data packet types are capable of transmitting the entire required data length, choosing for the transmission, from the data packet types capable of transmitting the entire required data length, a data packet type capable of transmitting most data in a shortest time; and

if none of the identified data packets are capable of transmitting the required data length, choosing for the transmission, from the identified data packet types, a data packet type capable of transmitting most data in a shortest time.

8-10. Canceled

11. (Currently Amended) [[A]] The computer-readable medium of claim 10 wherein ~~having stored thereon a set of instructions, which when executed by a processor, cause the processor to perform a method comprising:~~ the identified data packet types not only

~~identifying data for transmission;~~

~~determining how many time slots are available for the transmission;~~

~~upon determining the number of the available time slots, identifying a plurality of data packets that~~ fit into the available time-slots[[,]] and meet [[a]] the minimum transfer

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length requirement ~~and are of a data packet type which is~~ but are also least prone to a transmission error~~; and~~

~~selecting, from the identified data packet types, a data packet type to transmit a portion of the data in accordance with characteristics of the transmission.~~

12. (Currently Amended) [[A]] The computer-readable medium of claim 10 wherein ~~having stored thereon a set of instructions, which when executed by a processor, cause the processor to perform a method comprising:~~ the identified data packet types not only

~~identifying data for transmission;~~

~~determining how many time-slots are available for the transmission;~~

~~upon determining the number of the available time slots, identifying a plurality of data packets that~~ fit into the available time-slots[[,]] and meet [[a]] the minimum transfer length requirement [[and]] but can also be transmitted in a transmitter logic low power mode~~; and~~

~~selecting, from the identified data packet types, a data packet type to transmit a portion of the data in accordance with characteristics of the transmission.~~

13. (Currently Amended) A computing system comprising:

a first programmable module to identify available data packets for transmission, the available data packets being of a plurality of data packet types corresponding to different numbers of time-slots required for data packet transmission;

a second programmable module to determine how many time-slots are available for the transmission; [[and]]

a third programmable module to identify, upon determining the number of the available time slots, a subset of the plurality of data packet types that fit into the available time-slots and meet a minimum transfer length requirement; and

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a fourth programmable module to ~~selecting, from the identified data packet types, a data packet type to~~ determine whether any of the identified data packet types are capable of transmitting an entire required data length ~~a portion of the data in accordance with characteristics of the transmission~~,

if any of the identified data packet types are capable of transmitting the entire required data length, to choose for the transmission, from the data packet types capable of transmitting the entire required data length, a data packet type capable of transmitting most data in a shortest time, and

if none of the identified data packets are capable of transmitting the required data length, to choose for the transmission, from the identified data packet types, a data packet type capable of transmitting most data in a shortest time.

14. Canceled.

15. (Currently Amended) [[A]] The computing system of claim 13 wherein the identified data packet types not only ~~comprising:~~

~~a first programmable module to identify data for transmission;~~

~~a second programmable module to determine how many time slots are available for the transmission; and~~

~~a third programmable module to identify, upon determining the number of the available time slots, a plurality of data packets that~~ fit into the available time-slots[[,]] and meet [[a]] the minimum transfer length requirement ~~and are of a data packet type which is~~ but are also least prone to a transmission error~~, and to select, from the identified data packet types, a data packet type to transmit a portion of the data in accordance with characteristics of the transmission~~.

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16. (Currently Amended) [[A]] The computing system of claim 13 wherein the identified data packet types not only ~~comprising:~~

~~a first programmable module to identify data for transmission;~~

~~a second programmable module to determine how many time slots are available for the transmission; and~~

~~a third programmable module to identify, upon determining the number of the available time slots, a plurality of data packets that~~ fit into the available time-slots[[,]] and meet [[a]] the minimum transfer length requirement [[and]] but can also be transmitted in a transmitter logic low power mode~~, and to select, from the identified data packet types, a data packet type to transmit a portion of the data in accordance with characteristics of the transmission~~.

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